

FILE 'HOME' ENTERED AT 13:51:44 ON 28 JUL 2010

=> file .pensee

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SINCE FILE

TOTAL

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SESSION

FULL ESTIMATED COST

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0.22

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FILE 'USPATFULL' ENTERED AT 13:52:24 ON 28 JUL 2010

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=> e wang shan/au

E1 6 WANG SHAMINO Y/AU

E2 1 WANG SHAMINO YUANLIANG/AU

E3 818 --> WANG SHAN/AU

E4 4 WANG SHAN BA/AU

E5 1 WANG SHAN CAI/AU

E6 1 WANG SHAN CH ENG/AU

E7 8 WANG SHAN CHANG/AU

E8 1 WANG SHAN CHI/AU

E9 1 WANG SHAN CHIU/AU

E10 2 WANG SHAN CHUAN/AU

E11 1 WANG SHAN CING/AU

E12 1 WANG SHAN COLLEGE OF CIVIL ENGINEERING HARBIN ENGINEE/AU

=> s e3 and (ac tickling field)

L1 0 "WANG SHAN"/AU AND (AC TICKLING FIELD)

=> s e3 and ac field)

UNMATCHED RIGHT PARENTHESIS 'FIELD)'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s e3 and ac field

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L2          0 "WANG SHAN"/AU AND AC FIELD

=> s e3  and magnetic
L3          24 "WANG SHAN"/AU AND MAGNETIC

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4          22 DUP REM L3 (2 DUPLICATES REMOVED)

=> d l4 1-22 ti

L4  ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 1
TI  Micro-plate magnetic chemiluminescence immunoassay and its
    applications in carcinoembryonic antigen analysis

L4  ANSWER 2 OF 22  BIOSIS  COPYRIGHT (c) 2010 The Thomson Corporation  on STN
TI  Isolation and identification of the main carotenoid pigment from the rare
    orange muscle of the Yesso scallop.

L4  ANSWER 3 OF 22  COMPENDEX COPYRIGHT 2010 EEI on STN
TI  Growth of single-walled carbon nanotubes from tellurium nanoparticles by
    alcohol CVD

L4  ANSWER 4 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN DUPLICATE 2
TI  Magnetic nanotechnology for biodetection

L4  ANSWER 5 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  Photoelectric positioning apparatus coded with Hall device

L4  ANSWER 6 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  Controllable reactor with parallel magnetic circuit and
    self-shielding of magnetic leakage

L4  ANSWER 7 OF 22  COMPENDEX COPYRIGHT 2010 EEI on STN
TI  Synthesis and characterization of NaYF4:Yb, Er upconversion fluorescent
    nanoparticles via a co-precipitation method

L4  ANSWER 8 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  Synthesis of rod-like bis-ester liquid crystals and their influence on
    photoelectric properties of liquid crystalline materials

L4  ANSWER 9 OF 22  COMPENDEX COPYRIGHT 2010 EEI on STN
TI  Synthesis and characterization of uniform-sized hollow chitosan
    microspheres

L4  ANSWER 10 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  Forming method of magnetic bio-carrier for sewage treatment

L4  ANSWER 11 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  High-performance magnetic biocarrier for wastewater treatment,
    and its preparation method

L4  ANSWER 12 OF 22  CAPLUS  COPYRIGHT 2010 ACS on STN
TI  Purification and structural studies of sec-butyl-cis-trans-1-propenyl
    disulfide in essential oil from Ferula sinkiangensis K. M. Shen

L4  ANSWER 13 OF 22  COMPENDEX COPYRIGHT 2010 EEI on STN
TI  OLTP workloads on modern processor: Characterization and analysis

L4  ANSWER 14 OF 22  COMPENDEX COPYRIGHT 2010 EEI on STN
TI  New method on uniformity tuning of Ta(N) barrier layer

```

L4 ANSWER 15 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN  
 TI Hydrothermally stable aluminosilicate mesostructures prepared from zeolite ZSM-5  
  
 L4 ANSWER 16 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN  
 TI Spin wave based logic circuits  
  
 L4 ANSWER 17 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN  
 TI Fluidization of nano-sized particles - design and operation issues  
  
 L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Preparation and application of assembled magnetic composite particle  
  
 L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Synthesis and NMR elucidation of adrafinil  
  
 L4 ANSWER 20 OF 22 MEDLINE on STN  
 TI Identifying N-nitrosofenfluramine in a nutrition supplement.  
  
 L4 ANSWER 21 OF 22 COMPENDEX COPYRIGHT 2010 EEI on STN  
 TI HRTEM study of Al<sub>2</sub>O<sub>3</sub> barriers in Co<sub>81</sub>Pt<sub>19</sub>/Co/Al-Al<sub>2</sub>O<sub>3</sub>/Ni<sub>80</sub>Fe<sub>20</sub> spin dependent tunneling junctions  
  
 L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI The 1997 IEEE International Magnetism Conference (Intermag '97), Part I, held at the Hyatt Regency Hotel, New Orleans, Louisiana, 1-4 April 1997. [In: IEEE Trans. Magn., 1997; 33(5 Pt. 1)]

=> s l4 and tickle or tickling

L5 735 L4 AND TICKLE OR TICKLING

=> s tickle or tickling

L6 1658 TICKLE OR TICKLING

=> s l6 and l4

L7 0 L6 AND L4

=> s l4 and ac

L8 0 L4 AND AC

=> s e3 and ac

L9 7 "WANG SHAN"/AU AND AC

=> dup rem l9

PROCESSING COMPLETED FOR L9

L10 5 DUP REM L9 (2 DUPLICATES REMOVED)

=> d l10 1-5

L10 ANSWER 1 OF 5 USPATFULL on STN

AN 2008:265858 USPATFULL <<LOGINID::20100728>>

TI Power control circuit with alarm

IN Chen, Chao, Guangdong, CHINA

Wang, Shan, Hunan, CHINA

PI US 20080232016 A1 20080925

AI US 2007-688887 A1 20070321 (11)

DT Utility

FS APPLICATION

LN.CNT 152

INCL INCLM: 361/093.100

NCL NCLM: 361/093.100

IC IPCI H02H0003-08 [I,A]

IPCR H02H0003-08 [I,C]; H02H0003-08 [I,A]

L10 ANSWER 2 OF 5 METADEX COPYRIGHT 2010 CSA on STN

AN 2007(09):71-197873 METADEX <<LOGINID::20100728>>

TI Development of TIG welding machine with digital IGBT.

AU Li, He-Qi (College of Material Science and Engineering, Lanzhou Univ. of Tech., Lanzhou 730050, China ); Guo, Xue-Liang; Wang, Shan; Zhang, Peng; Li, Hong

SO Lanzhou Ligong Daxue Xuebao / Journal of Lanzhou University of Technology (20070200), vol. 33, 1, pp. 21-24

Published by: Lanzhou University of Technology, 85 Langongping Road, Lanzhou, Gansu Province, 730050, mailto: journal@lut.cn. 20070200

ISSN: 1673-5196

DT Journal

CY China

LA Chinese

L10 ANSWER 3 OF 5 METADEX COPYRIGHT 2010 CSA on STN

AN 2007(01):55-002518 METADEX <<LOGINID::20100728>>

TI Digital IGBT inverter AC/DC pulsed TIG welding power sources based on DSP.

AU Li, Chun-Xu (State Key Lab. Of Advanced Non-ferrous Materials, Lanzhou Univ. of Tech., Lanzhou 730050, China ); Wang, Shan; Guo, Xue-Liang

SO Dianhanji / Electric Welding Machine (20061000), vol. 36, 10, pp. 31-35

Published by: Electric Welding Machine, No. 29, Dongyiduan 2nd Ring Road, Chengdu, mailto: dhj@71dhj.com, URL: www.71dhj.com. 20061000

ISSN: 1001-2303

DT Journal

CY China

LA Chinese

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2004:1010027 CAPLUS <<LOGINID::20100728>>

DN 142:356059

TI Method for preparing sulfide/polymer composite microsphere with patterned surface

IN Fang, Yu; Bai, Chaoliang; Zhang, Ying; Wang, Shan; Hu, Daodao; Wang, Mingzhen; Gao, Lining

PA Shaanxi Normal University, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
|      | -----          | ---- | -----    | -----           | -----    |
| PI   | CN 1473648     | A    | 20040211 | CN 2003-134477  | 20030808 |
|      | CN 1191115     | C    | 20050302 |                 |          |
| PRAI | CN 2003-134477 |      | 20030808 |                 |          |

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 1

AN 2004:205954 CAPLUS <<LOGINID::20100728>>

DN 140:310157

TI Preparation of spherical nanostructured poly(methacrylic acid)/PbS composites by a microgel template method

AU Zhang, Ying; Fang, Yu; Wang, Shan; Lin, Shuyu

CS School of Chemistry and Materials Science, Shaanxi Normal University,  
Xi'an, Shaanxi, 710062, Peop. Rep. China  
SO Journal of Colloid and Interface Science (2004), 272(2), 321-325  
CODEN: JCISA5; ISSN: 0021-9797  
PB Elsevier Science  
DT Journal  
LA English  
OSC.G 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)  
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s e3 and (magnetic field)  
L11 3 "WANG SHAN"/AU AND (MAGNETIC FIELD)

=> d l11 1-3

L11 ANSWER 1 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN  
AN 2010-1012755563 COMPENDEX <<LOGINID::20100728>>  
TI Magnetic Nanotechnology for Biodetection  
AU Han Shu-Jen; Wang Shan  
CS Han Shu-Jen (IBM T.J. Watson Research Center, Yorktown Heights, NY  
(US)); Wang Shan (Stanford University, Stanford, CA (US))  
EMAIL: sjhan@us.ibm.com  
SO JALA - Journal of the Association for Laboratory Automation (Apr 2010)  
Volume 15, Number 2, pp. 93-98, 20 refs.  
CODEN: JALLFO ISSN: 1535-5535 E-ISSN: 1540-2452  
DOI: 10.1016/j.jala.2009.10.008  
Published by: Elsevier Inc., 170 S Independence Mall W 300 E,  
Philadelphia, PA 19106-3399 (US)  
PUI S1535553509002408  
CY United States  
DT Journal; Article  
LA English  
SL English  
ED Entered STN: 16 Mar 2010  
Last updated on STN: 16 Mar 2010

L11 ANSWER 2 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN  
AN 2009-4312389817 COMPENDEX <<LOGINID::20100728>>  
TI Spin wave based logic circuits  
AU Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang; Lee Dok Won;  
Wang Shan  
CS Khitun Alexander; Bao Mingqiang; Lee Joo-Young; Wang Kang (Electrical  
Engineering, University of California Los Angeles, 420 Westwood Plaza  
Box 951594, Los Angeles, CA, 90095-1594 (US)); Lee Dok Won; Wang Shan  
(Stanford University, Stanford, CA, 94305-4045 (US))  
SO Materials Research Society Symposium Proceedings - Nanoscale Magnetism  
and Device Applications. Materials Research Society Symposium  
Proceedings (2007) Volume 998, pp. 98-102, 8 refs.  
CODEN: MRSPDH ISSN: 0272-9172 ISBN: 9781605604312  
Published by: Materials Research Society, 506 Keystone Drive,  
Warrendale, PA 15086 (US)  
Conference: Nanoscale Magnetism and Device Applications - 2007 MRS  
Spring Meeting San Francisco, CA (US), 9 Apr 2007-13 Apr 2007  
CY United States  
DT Conference; (Conference Paper)  
LA English  
SL English  
ED Entered STN: 28 Oct 2009  
Last updated on STN: 28 Oct 2009

L11 ANSWER 3 OF 3 COMPENDEX COPYRIGHT 2010 EEI on STN  
 AN 2008-4011612753 COMPENDEX <<LOGINID::20100728>>  
 TI New method on uniformity tuning of Ta(N) barrier layer  
 AU Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian  
 CS Yang Liu; Xu Jerry; Huang Liang; Wang Shan; Kang Jian (Applied Material  
 China Co. Ltd., BDA, Area A, No. 1, North Di Sheng Street, 100176,  
 Beijing (CN))  
 SO Semiconductor Technology, ISTC 2008 - Proceedings of the 7th  
 International Conference on Semiconductor Technology. Proceedings -  
 Electrochemical Society (2008) Volume PV 2008-1, pp. 327-330,  
 var.pagings p., 2 refs.  
 ISBN: 9789881740816  
 Published by: Electrochemical Society Inc.  
 Conference: 7th International Conference on Semiconductor Technology,  
 ISTC 2008 Shanghai (CN), 15 Mar 2008-17 Mar 2008  
 CY United States  
 DT Conference; (Conference Paper)  
 LA English  
 SL English  
 ED Entered STN: 5 Jan 2009  
 Last updated on STN: 5 Jan 2009

=> e white robert/au

E1 134 WHITE ROB/AU  
 E2 1 WHITE ROBER/AU  
 E3 212 --> WHITE ROBERT/AU  
 E4 147 WHITE ROBERT A/AU  
 E5 45 WHITE ROBERT A H/AU  
 E6 15 WHITE ROBERT A JR/AU  
 E7 3 WHITE ROBERT ALFRED ALBERT/AU  
 E8 2 WHITE ROBERT ALLEN/AU  
 E9 1 WHITE ROBERT ALTON JR/AU  
 E10 1 WHITE ROBERT ALVIN/AU  
 E11 2 WHITE ROBERT ANTHONY/AU  
 E12 1 WHITE ROBERT ARTHUR/AU

=> s e1-e3

L12 347 ("WHITE ROB"/AU OR "WHITE ROBER"/AU OR "WHITE ROBERT"/AU)

=> s l12 and (magnetic field)

L13 2 L12 AND (MAGNETIC FIELD)

=> d l13 1-2

L13 ANSWER 1 OF 2 USPATFULL on STN  
 AN 2006:331999 USPATFULL <<LOGINID::20100728>>  
 TI Method of and apparatus for determining if a buried current carrying  
 conductor is buried above predetermined minimum depth  
 IN Thompson, Jeff, Cheltenham, UNITED KINGDOM  
 Pearson, Richard, Bristol, UNITED KINGDOM  
 White, Robert, Leicestershire, UNITED KINGDOM  
 PI US 20060284610 A1 20061221  
 US 7339379 B2 20080304  
 AI US 2006-455660 A1 20060620 (11)  
 PRAI GB 2005-12564 20050620  
 DT Utility  
 FS APPLICATION  
 LN.CNT 614  
 INCL INCLM: 324/067.000

NCL NCLM: 324/326.000; 324/067.000  
 NCLS: 324/067.000  
 IC IPCI G01R0019-00 [I,A]  
 IPCI-2 G01V0003-08 [I,A]; G01V0003-11 [I,A]; G01V0003-10 [I,C\*]  
 IPCR G01R0019-00 [I,C]; G01R0019-00 [I,A]; G01V0003-08 [I,C\*];  
 G01V0003-08 [I,A]  
  
 L13 ANSWER 2 OF 2 USPATFULL on STN  
 AN 92:60231 USPATFULL <<LOGINID::20100728>>  
 TI Hub-mounted vehicle back-up alarm  
 IN Hutchisson, James, Bellevue, WA, United States  
 White, Robert, Kent, WA, United States  
 PA Dominion Automotive Industries Corp., Florence, KY, United States (U.S.  
 corporation)  
 PI US 5132665 19920721  
 AI US 1990-545512 19900627 (7)  
 DT Utility  
 FS Granted  
 LN.CNT 479  
 INCL INCLM: 340/463.000  
 INCLS: 340/466.000; 340/672.000; 340/670.000; 340/671.000; 340/693.000;  
 307/009.100; 307/122.000; 200/061.550; 310/025.000; 310/040.000R;  
 310/067.000A; 310/068.000E  
 NCL NCLM: 340/463.000  
 NCLS: 200/061.550; 307/009.100; 307/122.000; 310/025.000; 310/040.000R;  
 310/067.000A; 310/068.000E; 340/466.000; 340/670.000;  
 340/671.000; 340/672.000; 340/693.200  
 IC [5]  
 ICM B60Q001-22  
 ICS G08B021-00  
 IPCI B60Q0001-22 [ICM,5]; B60Q0001-02 [ICM,5,C\*]; G08B0021-00 [ICS,5]  
 IPCR B60Q0001-02 [I,C\*]; B60Q0001-22 [I,A]  
 EXF 340/464-467; 340/672; 340/686; 340/687; 340/669-671; 340/693; 310/348;  
 310/1; 310/25; 310/39; 310/40R; 310/DIG.3; 310/67A; 310/68E; 307/9.1;  
 307/10.1; 307/121-122; 200/61.39; 200/61.55; 200/61.57; 200/DIG.32

=> e white r/au

E1 1 WHITE QUENTIN W/AU  
 E2 1 WHITE QUINTON/AU  
 E3 2751 --> WHITE R/AU  
 E4 1 WHITE R 0/AU  
 E5 2 WHITE R 4TH/AU  
 E6 807 WHITE R A/AU  
 E7 1 WHITE R A F/AU  
 E8 32 WHITE R A H/AU  
 E9 10 WHITE R A J/AU  
 E10 15 WHITE R A JR/AU  
 E11 72 WHITE R A S/AU  
 E12 106 WHITE R ALLEN/AU

=> e webb chris/au

E1 3 WEBB CHIU HO T/AU  
 E2 2 WEBB CHLOE M B/AU  
 E3 44 --> WEBB CHRIS/AU  
 E4 1 WEBB CHRIS A/AU  
 E5 1 WEBB CHRIS ALBERT/AU  
 E6 45 WEBB CHRIS D/AU  
 E7 1 WEBB CHRIS DAVID/AU  
 E8 2 WEBB CHRIS J/AU  
 E9 2 WEBB CHRISTIAN A/AU

E10 7 WEBB CHRISTINA K/AU  
E11 1 WEBB CHRISTINA KAE/AU  
E12 28 WEBB CHRISTINE/AU

=> s e3 and magnetic

L14 2 "WEBB CHRIS"/AU AND MAGNETIC

=> d l14 1-2

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN  
AN 2003:370178 CAPLUS <<LOGINID::20100728>>  
DN 139:146121  
TI Detection of single micron-sized magnetic bead and  
magnetic nanoparticles using spin valve sensors for biological  
applications  
AU Li, Guanxiong; Joshi, Vikram; White, Robert L.; Wang, Shan X.; Kemp,  
Jennifer T.; Webb, Chris; Davis, Ronald W.; Sun, Shouheng  
CS Department of Materials Science and Engineering, Stanford University,  
Stanford, CA, 94305, USA  
SO Journal of Applied Physics (2003), 93(10, Pt. 2), 7557-7559  
CODEN: JAPIAU; ISSN: 0021-8979  
PB American Institute of Physics  
DT Journal  
LA English  
OSC.G 84 THERE ARE 84 CAPLUS RECORDS THAT CITE THIS RECORD (84 CITINGS)  
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 2 COMPENDEX COPYRIGHT 2010 EEI on STN  
AN 2003-257509431 COMPENDEX <<LOGINID::20100728>>  
TI Detection of single micron-sized magnetic bead and  
magnetic nanoparticles using spin valve sensors for biological  
applications  
AU Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X.; Kemp Jennifer  
T.; Webb Chris; Davis Ronald W.; Sun Shouheng  
CS Li Guanxiong; Joshi Vikram; White Robert L.; Wang Shan X. (Department of  
Materials Science, Stanford University, Stanford, CA 94305 (US)); Kemp  
Jennifer T.; Webb Chris; Davis Ronald W. (Stanford Genome Technology  
Center, Stanford University, Palo Alto, CA 94304 (US)); Sun Shouheng  
(IBM T. J. Watson Research Center, Yorktown Heights, NY 10598 (US))  
EMAIL: sxwang@ee.stanford.edu  
SO Journal of Applied Physics (15 May 2003) Volume 93, Number 10 2, pp.  
7557-7559, 8 refs.  
CODEN: JAPIAU ISSN: 0021-8979  
DOI: 10.1063/1.1540176  
Published by: American Institute of Physics Inc.  
CY United States  
DT Journal; (Conference Paper); Application; Theoretical; Experimental  
LA English  
SL English  
ED Entered STN: 4 Jan 2009  
Last updated on STN: 4 Jan 2009

<-----User Break----->

<-----User Break----->

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PASSWORD:

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| COST IN U.S. DOLLARS | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST  | 199.71              | 199.93           |

=> file .pensee

| COST IN U.S. DOLLARS | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST  | 199.71              | 199.93           |

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=> e li guanxiong/au

|     |        |  |
|-----|--------|--|
| E1  | 2      | LI GUANXIN DEPARTMENT OF MATERIAL SCIENCE AND ENGINEE/AU |
| E2  | 10     | LI GUANXING/AU   |
| E3  | 36 --> | LI GUANXIONG/AU  |
| E4  | 1      | LI GUANXIU/AU  |
| E5  | 1      | LI GUANXUE/AU  |
| E6  | 1      | LI GUANYA/AU   |
| E7  | 1      | LI GUANYANG/AU   |
| E8  | 1      | LI GUANYE/AU   |
| E9  | 16     | LI GUANYI/AU   |
| E10 | 1      | LI GUANYIN/AU  |
| E11 | 6      | LI GUANYING/AU   |
| E12 | 5      | LI GUANYONG/AU   |

=> s e3 and magnetic

L15 33 "LI GUANXIONG"/AU AND MAGNETIC

=> dup rem l15

PROCESSING COMPLETED FOR L15

L16 19 DUP REM L15 (14 DUPLICATES REMOVED)

=> d l16 1-19 ti

L16 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 1

TI Method and system for providing a perpendicular magnetic recording head

L16 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN

TI Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules.

L16 ANSWER 3 OF 19 USPATFULL on STN

TI MAGNETIC NANOPARTICLES, MAGNETIC DETECTOR ARRAYS, AND METHODS FOR THIER USE IN DETECTING BIOLOGICAL MOLECULES

L16 ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPLICATE 2

TI Advances in giant magnetoresistance biosensors with magnetic nanoparticle tags: Review and outlook

L16 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 3

TI Spin valve sensors for ultrasensitive detection of superparamagnetic nanoparticles for biological applications

L16 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN

TI Spin valve biosensors: Signal dependence on nanoparticle position

L16 ANSWER 7 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN

TI Spin valve biosensors: Signal dependence on nanoparticle position

L16 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 4

TI Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules

L16 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 5

TI DNA-functionalized MFe<sub>2</sub>O<sub>4</sub> (M = Fe, Co, or Mn) nanoparticles and their

hybridization to DNA-functionalized surfaces

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6  
TI Towards a magnetic microarray for sensitive diagnostics

L16 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 7  
TI Biochemical stability of components for use in a DNA detection system

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8  
TI Model and experiment of detecting multiple magnetic nanoparticles as biomolecular labels by spin valve sensors

L16 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 9  
TI Monodisperse MFe<sub>2</sub>O<sub>4</sub> (M = Fe, Co, Mn) Nanoparticles

L16 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 10  
TI Detection of single micron-sized magnetic bead and magnetic nanoparticles using spin valve sensors for biological applications

L16 ANSWER 15 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STN  
TI Analytical and Micromagnetic Modeling for Detection of a Single Magnetic Microbead or Nanobead by Spin Valve Sensors

L16 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Influence of Si buffer layer on the giant magnetoresistance effect in Co/Cu/Co sandwiches

L16 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN  
TI High giant magnetoresistance sensitivity in Co/Cu/Co sandwich with Ni buffer layer

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Highly sensitive giant magnetoresistance and in-plane magnetic anisotropy in Co/Cu/Co sandwiches with a Si buffer layer

L16 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Study on giant magnetoresistance in Co/Cu/Co sandwiches

=> d l16 2, 4-6 ibib abs

L16 ANSWER 2 OF 19 BIOSIS COPYRIGHT (c) 2010 The Thomson Corporation on STN  
ACCESSION NUMBER: 2010:263144 BIOSIS <<LOGINID::20100728>>  
DOCUMENT NUMBER: PREV201000263144  
TITLE: Magnetic nanoparticles, magnetic detector arrays, and methods for their use in detecting biological molecules.  
AUTHOR(S): Wang, Shan X. [Inventor]; Anonymous; White, Robert L. [Inventor]; Webb, Chris D. [Inventor]; Li, Guanxiong [Inventor]  
CORPORATE SOURCE: Portola Valley, CA USA  
ASSIGNEE: The Board of Trustees of the Leland Stanford Junior University  
PATENT INFORMATION: US 07682838 20100323  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (MAR 23 2010)  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 13 May 2010

Last Updated on STN: 13 May 2010

AB Magnetic nanoparticles and methods for their use in detecting biological molecules are disclosed. The magnetic nanoparticles can be attached to nucleic acid molecules, which are then captured by a complementary sequence attached to a detector, such as a spin valve detector or a magnetic tunnel junction detector. The detection of the bound magnetic nanoparticle can be achieved with high specificity and sensitivity.

L16 ANSWER 4 OF 19 COMPENDEX COPYRIGHT 2010 EEI on STNDUPLICATE 2  
ACCESSION NUMBER: 2008-2711347110 COMPENDEX <<LOGINID::20100728>>  
TITLE: Advances in giant magnetoresistance biosensors with magnetic nanoparticle tags: Review and outlook  
AUTHOR(S): Wang Shan X.; Li Guanxiong  
CORPORATE SOURCE: Wang Shan X.; Li Guanxiong (Department of Materials Science and Engineering, Stanford University, Stanford, CA 94305 (US)); Wang Shan X. (Department of Electrical Engineering, Stanford University, Stanford, CA 94305 (US)); Li Guanxiong (Western Digital Corporation, Fremont, CA 94539 (US))  
EMAIL: sxwang@ee.stanford.edu  
SOURCE: IEEE Transactions on Magnetics (Jul 2008) Volume 44, Number 7, pp. 1687-1702, 57 refs.  
CODEN: IEMGAQ ISSN: 0018-9464  
DOI: 10.1109/TMAG.2008.920962  
Published by: Institute of Electrical and Electronics Engineers Inc.  
COUNTRY OF PUBLICATION: United States  
DOCUMENT TYPE: Journal; (Conference Paper)  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ENTRY DATE: Entered STN: 5 Jan 2009  
Last updated on STN: 5 Jan 2009

AN 2008-2711347110 COMPENDEX <<LOGINID::20100728>>  
AB We present a review of giant magnetoresistance (GMR) spin valve sensors designed for detection of magnetic nanoparticles as biomolecular labels (nanotags) in magneto-nano biodetection technology. We discuss the intricacy of magneto-nano biosensor design and show that as few as approximately 14 monodisperse 16-nm superparamagnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in (narrow band) detection. GMR biosensors and biochips have been successfully applied to the detection of biological events in the form of both protein and DNA assays with great speed, sensitivity, selectivity, and economy. The limit of molecular detection is well below 10 pM in concentration, and the protein or DNA assay time can be under two hours. The technology is highly scalable to deep multiplex detection of biomarkers in a complex disease, and amenable to integration of microfluidics and CMOS electronics for portable applications. On-chip CMOS circuitry makes a sensor density of 0.1-1 million sensors per square centimeter feasible and affordable. The theoretical and experimental results thus far suggest that magneto-nano biochip-based GMR sensor arrays and nanotags hold great promise in biomedicine, particularly for point-of-care molecular diagnostics of cancer, infectious diseases, radiation injury, cardiac diseases, and other diseases. .COPYRGT. 2008 IEEE.

L16 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 3  
ACCESSION NUMBER: 2006:62066 CAPLUS <<LOGINID::20100728>>  
DOCUMENT NUMBER: 144:365613  
TITLE: Spin valve sensors for ultrasensitive detection of superparamagnetic nanoparticles for biological

applications

AUTHOR(S): Li, Guanxiong; Sun, Shouheng; Wilson, Robert J.; White, Robert L.; Pourmand, Nader; Wang, Shan X.

CORPORATE SOURCE: Department of Materials and Engineering, Stanford University, Stanford, CA, 94305-4045, USA

SOURCE: Sensors and Actuators, A: Physical (2006), A126(1), 98-106

CODEN: SAAPEB; ISSN: 0924-4247

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We present giant magnetoresistance (GMR) spin valve sensors designed for detection of superparamagnetic nanoparticles as potential biomol. labels in magnetic biodetection technol. We discuss the sensor design and exptl. demonstrate that as few as .apprx.23 monodisperse 16-nm superparamagnetic Fe3O4 nanoparticles can be detected by submicron spin valve sensors at room temperature without resorting to lock-in detection. A patterned self-assembly method of nanoparticles, based on a polymer-mediated process and fine lithog., is developed for the detection. It is found that sensor signal increases linearly with the number of nanoparticles.

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L16 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:562138 CAPLUS <<LOGINID::20100728>>

DOCUMENT NUMBER: 145:183222

TITLE: Spin valve biosensors: Signal dependence on nanoparticle position

AUTHOR(S): Li, Guanxiong; Sun, Shouheng; Wang, Shan X.

CORPORATE SOURCE: Department of Materials Science and Engineering, Stanford University, Stanford, CA, 94305, USA

SOURCE: Journal of Applied Physics (2006), 99(8, Pt. 3), 08P107/1-08P107/3

CODEN: JAPIAU; ISSN: 0021-8979

PUBLISHER: American Institute of Physics

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Exptl. and theor. studies have been carried out on the spin valve sensor signal dependence on the spatial locations of magnetic nanoparticles as potential biomol. labels in the magnetic biodetection technol. Superparamagnetic 16 nm magnetite (Fe3O4) nanoparticles were site specifically deposited at different positions relative to a submicron-wide spin valve sensor. The spin valve sensor signal showed both polarity and magnitude differences with the particles at different positions. A theor. model including magnetic sensor-particle interaction confirms the exptl. results and provides a design guide to the sensing area. Moreover, the theor. calcs. reveal a nonmonotonic signal dependence on the vertical particle-to-sensor distance due to the sensor-particle interaction, and show that an optimum distance exists for signal strength and quantification.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 116 10, 12, 18 ibib abs

L16 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 6  
 ACCESSION NUMBER: 2005:402371 CAPLUS <<LOGINID::20100728>>  
 DOCUMENT NUMBER: 143:139042  
 TITLE: Towards a magnetic microarray for sensitive diagnostics  
 AUTHOR(S): Wang, Shan X.; Bae, Seung-Young; Li, Guanxiong  
 ; Sun, Shouheng; White, Robert L.; Kemp, Jennifer T.;  
 Webb, Chris D.  
 CORPORATE SOURCE: Geballe Laboratory for Advanced Materials, Department  
 of Materials Science and Engineering, Stanford  
 University, Stanford, CA, 94305-4045, USA  
 SOURCE: Journal of Magnetism and Magnetic Materials (2005),  
 293(1), 731-736  
 CODEN: JMMMD; ISSN: 0304-8853  
 PUBLISHER: Elsevier B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB We presented proof-of-concept expts. and modeling towards a  
 high-sensitivity magnetic microarray which "tags" a DNA fragment  
 (or other biol. samples) with a high-moment magnetic  
 nanoparticle (NanoTag), which is in turn detected by a high-sensitivity  
 spin valve (SV) or magnetic tunnel junction (MTJ) detector  
 array. The detector can count the number of magnetic tags with a  
 resolution of 1-20 magnetic NanoTags, potentially counting  
 individual biomols.  
 OS.CITING REF COUNT: 43 THERE ARE 43 CAPLUS RECORDS THAT CITE THIS  
 RECORD (43 CITINGS)  
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN DUPLICATE 8  
 ACCESSION NUMBER: 2004:804749 CAPLUS <<LOGINID::20100728>>  
 DOCUMENT NUMBER: 142:256924  
 TITLE: Model and experiment of detecting multiple  
 magnetic nanoparticles as biomolecular labels  
 by spin valve sensors  
 AUTHOR(S): Li, Guanxiong; Wang, Shan X.; Sun, Shouheng  
 CORPORATE SOURCE: Department of Materials Science and Engineering,  
 Stanford University, Stanford, CA, 94305, USA  
 SOURCE: IEEE Transactions on Magnetics (2004), 40(4, Pt. 2),  
 3000-3002  
 CODEN: IEMGAQ; ISSN: 0018-9464  
 PUBLISHER: Institute of Electrical and Electronics Engineers  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB We present an anal. model for detection of multiple magnetic  
 nanoparticles (NP) as biomol. labels by spin valve (SV) sensors, aiming to  
 establish the relationship between the SV sensor signal and the number of  
 magnetic labels. The model is based on the assumptions of equivalent  
 average field of magnetic NPs and the coherent magnetization  
 rotation of SVs free layer. Using the model, we have calculated the sensor  
 signals of multiple NPs uniformly or randomly distributed over a SV sensor  
 at various aspect ratios of the NP array. Satisfactory signal linearity  
 at low particle number or high aspect ratio has been found. The model also  
 reveals that the SV sensors could be made insensitive to the random  
 configuration of NPs and only sensitive to the number of NPs. This feature  
 is desired for quant. bio-detection. To check the validity of the model,  
 we performed expts. on a monolayer of 16-nm Fe<sub>3</sub>O<sub>4</sub> NPs coated on  
 0.3- $\mu$ m-wide SV sensors. We found that the measured signals could be  
 well described by the anal. model.  
 OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS

RECORD (33 CITINGS)  
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1999:679591 CAPLUS <<LOGINID::20100728>>  
DOCUMENT NUMBER: 132:43223  
TITLE: Highly sensitive giant magnetoresistance and in-plane  
magnetic anisotropy in Co/Cu/Co sandwiches  
with a Si buffer layer  
AUTHOR(S): Li, Guanxiong; Shen, Honglie; Shen, Qinwo;  
Li, Tie; Zou, Shichang  
CORPORATE SOURCE: State Key Laboratory of Functional Materials for  
Informatics, Shanghai Institute of Metallurgy, Chinese  
Academy of Sciences, Shanghai, 200050, Peop. Rep.  
China  
SOURCE: Gongneng Cailiao Yu Qijian Xuebao (1999), 5(3),  
195-200  
CODEN: GCQXFW; ISSN: 1007-4252  
PUBLISHER: Gongneng Cailiao Yu Qijian Xuebao Bianjibu  
DOCUMENT TYPE: Journal  
LANGUAGE: Chinese

AB The Co/Cu/Co sandwiches with an amorphous Si buffer layer were prepared by  
high vacuum electron-beam evaporation The giant magnetoresistance (GMR) effect  
in these sandwiches was studied. An obvious in-plane magnetic  
anisotropy appeared in the Co/Cu/Co sandwiches with a Si buffer layer  
>0.9nm. A GMR of 5.5% and a high field sensitivity of 0.9%/Oe along the  
easy axis in Si 1.5nm/Co 5nm/Cu 3nm/Co 5nm sandwich was obtained. The  
interdiffusion at Si/Co interface was studied and a cobalt silicide was  
found. The silicide layer formed at interface was thought to induce the  
in-plane magnetic anisotropy in the sandwiches, which  
consequently resulted in the high field sensitivity of GMR.

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L1 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND (AC  
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L2 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND AC  
FIELD

L3 24 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND  
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 L4 22 DUP REM L3 (2 DUPLICATES REMOVED)  
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 L\*\*\* DEL 1 S E3 AND MAGNETIC  
 L\*\*\* DEL 1 S E3 AND MAGNETIC  
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 L\*\*\* DEL 11 S E3 AND MAGNETIC  
 L5 735 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L4 AND TICKLE OR TICKLING  
  
 L6 1658 SEA FILE=MFE SPE=ON ABB=ON PLU=ON TICKLE OR TICKLING  
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 L\*\*\* DEL 1 S E3 AND MAGNETIC  
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 L\*\*\* DEL 11 S E3 AND MAGNETIC  
 L7 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L6 AND L4  
 L\*\*\* DEL 11 S E3 AND MAGNETIC  
 L\*\*\* DEL 1 S E3 AND MAGNETIC  
 L\*\*\* DEL 1 S E3 AND MAGNETIC  
 L\*\*\* DEL 11 S E3 AND MAGNETIC  
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 L\*\*\* DEL 11 S E3 AND MAGNETIC  
 L8 0 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L4 AND AC  
 L9 7 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND AC  
 L10 5 DUP REM L9 (2 DUPLICATES REMOVED)  
 D L10 1-5  
 L11 3 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WANG SHAN"/AU AND  
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 E WHITE ROBERT/AU  
 L12 347 SEA FILE=MFE SPE=ON ABB=ON PLU=ON ("WHITE ROB"/AU OR "WHITE  
 ROBER"/AU OR "WHITE ROBERT"/AU)  
 L13 2 SEA FILE=MFE SPE=ON ABB=ON PLU=ON L12 AND (MAGNETIC FIELD)  
  
 D L13 1-2  
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 E WEBB CHRIS/AU  
 L14 2 SEA FILE=MFE SPE=ON ABB=ON PLU=ON "WEBB CHRIS"/AU AND  
 MAGNETIC  
 D L14 1-2  
  
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 METADEX, USPATFULL' ENTERED AT 14:52:53 ON 28 JUL 2010  
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 MAGNETIC  
 L16 19 DUP REM L15 (14 DUPLICATES REMOVED)  
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D L16 10, 12, 18 IBIB ABS

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